



⑪ Publication number : **0 634 870 A3**

⑫ **EUROPEAN PATENT APPLICATION**

⑪ Application number : **94303735.8**

⑤ Int. Cl.⁶ : **H04N 7/24, H04N 7/56**

⑫ Date of filing : **25.05.94**

⑩ Priority : **16.07.93 JP 176695/93**

⑬ Date of publication of application :
18.01.95 Bulletin 95/03

⑭ Designated Contracting States :
DE FR GB

⑮ Date of deferred publication of search report :
19.04.95 Bulletin 95/16

⑯ Applicant : **PIONEER ELECTRONIC CORPORATION**
4-1, Meguro 1-chome
Meguro-ku Tokyo (JP)

⑰ Inventor : **Moriyama, Yoshiaki, c/o Corporate Research and Dev.Lab., Pioneer Electronic Corp., 6-1-1, Fujimi Tsunugashima-shi, Saitama 350-02 (JP)**
Inventor : **Ono, Kouichi, c/o Corporate Research and Dev.Lab., Pioneer Electronic Corp., 6-1-1, Fujimi Tsunugashima-shi, Saitama 350-02 (JP)**
Inventor : **Hosaka, Sumio, c/o Pioneer Tokorozawa Plant 2610, Hanazono 4-chome Tokorozawa-City, Saitama (JP)**
Inventor : **Yamada, Takao, c/o Pioneer Tokorozawa Plant 2610, Hanazono 4-chome Tokorozawa-City, Saitama (JP)**

⑱ Representative : **Luckhurst, Anthony Henry William**
MARKS & CLERK,
57-60 Lincoln's Inn Fields
London WC2A 3LS (GB)

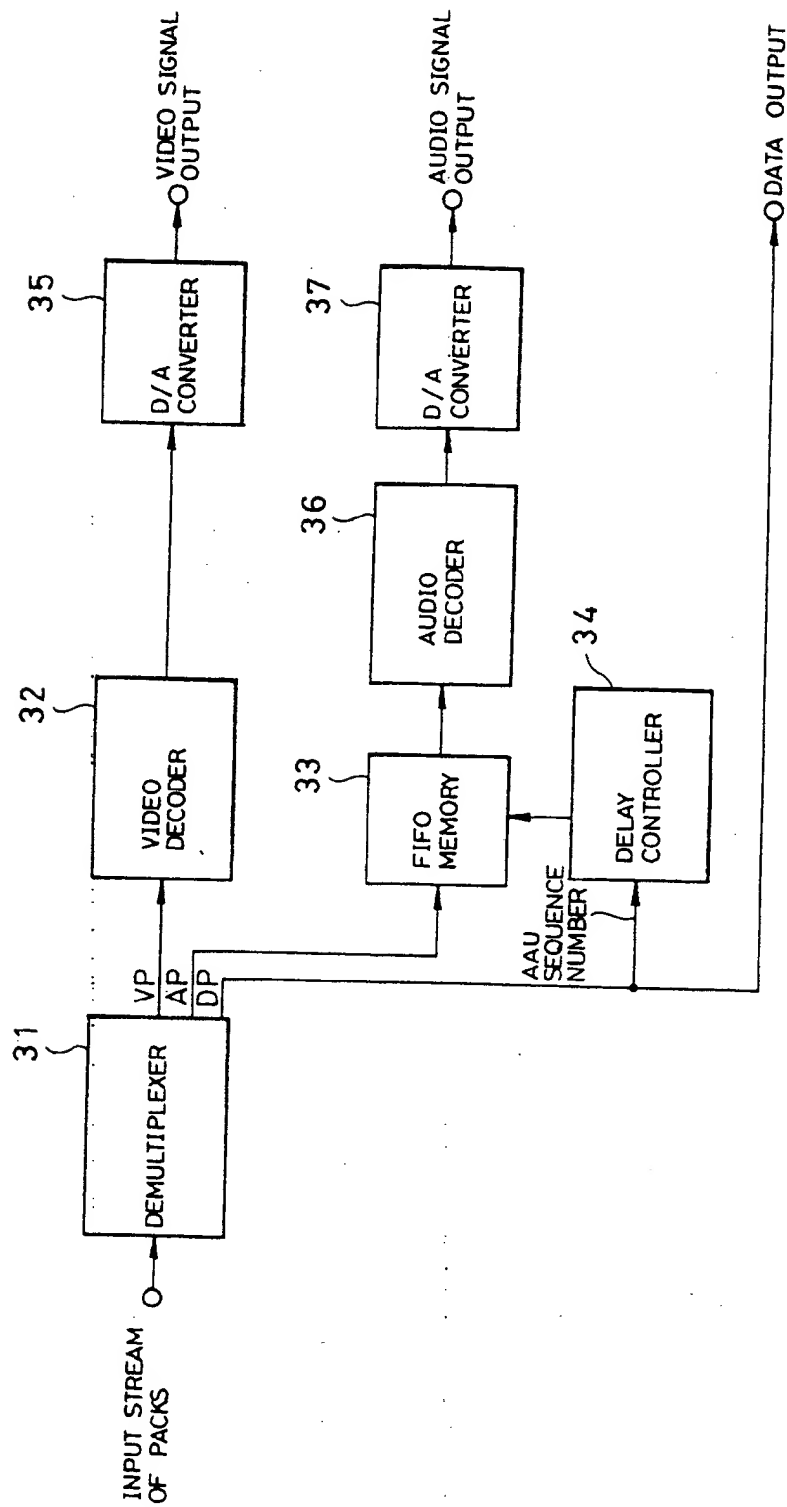
⑤④ **Synchronizing system for time-divided video and audio signals.**

⑤⑦ A synchronizing system accomplishes synchronous reproduction for video and audio signals. The number of unit audio data blocks to be put in one pack is set in such a way that the difference between the presentation start times for the stream of video data and the stream of audio data in one pack in a predetermined pack period becomes a predetermined value, and the pack carries positional information of the pack in the predetermined pack period to the pack. In a reproducing apparatus, the difference between presentation start times for video signals and audio signals in each pack is acquired by referring to positional information (AAU sequence number) in a stream of packs, transferred by the above transmission method, and at least one of the presentation start times for video signals and audio signals in the stream of packs

is controlled so that the difference between the presentation start times coincides with the difference between the presentation start times corresponding to the positional information.

EP 0 634 870 A3

FIG.10





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 30 3735

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|--|---|--|--|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
| A | SIGNAL PROCESSING. IMAGE COMMUNICATION, vol.4, no.2, April 1992, AMSTERDAM NL pages 153 - 159, XP000273161 MACINNIS 'The MPEG systems coding specification' * page 153, right column, last paragraph - page 154, right column, paragraph 3 * * page 157, left column, paragraph 2 - page 158, right column, paragraph 1 * * figures * | 1,3-5,7,8 | H04N7/24 H04N7/56 |
| A | PRESTON (EDITOR) 'Compact Disc-Interactive A Designer's Overview' 1991, KLUWER, DEVENTER, NL * page 112, paragraph 4 - page 114, paragraph 3 * | 1,3-5,7,8 | |
| A | PATENT ABSTRACTS OF JAPAN vol. 14, no. 568 (E-1014) 18 December 1990 & JP-A-02 246 432 (FUJITSU LIMITED) 2 October 1990 * abstract * | 1,5 | |
| | | | TECHNICAL FIELDS SEARCHED (Int.Cl.6) |
| | | | H04N |
| P,A T | CA-A-2 102 928 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD) 18 May 1994 & EP-A-0 598 295 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD) 25 May 1994 * column 2, line 14 - line 47 * * claims 1-9,11-14 * * figure 3 * | 1,3-5,7,8 1,3-5,7,8 | |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 21 February 1995 | Examiner Dippel, U |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |

EPO FORM 1500 (03/92) (POM/CR)